



**DrupalCon**  
PITTSBURGH 2023  
5-8 JUNE

# Project update bot: The road to Drupal 11

06 June | 11:30 EDT

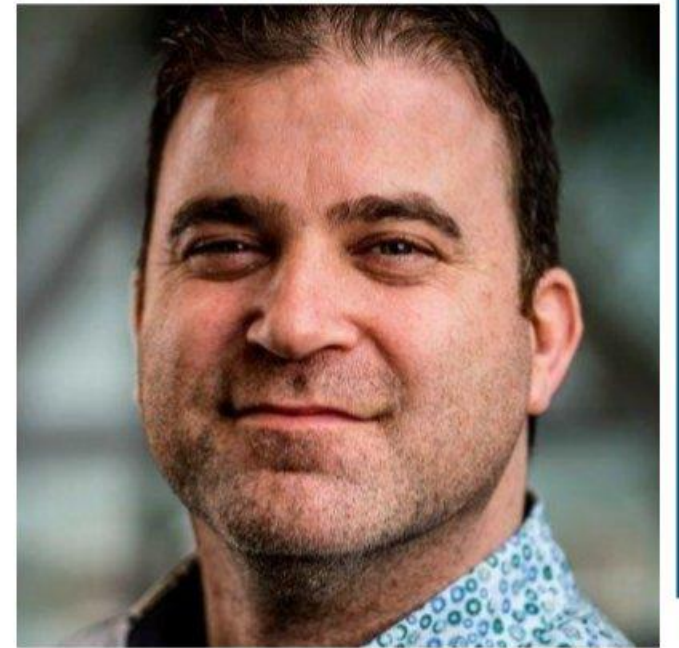
**BJÖRN BRALA**

*[drupal.org/u/bbrala](https://drupal.org/u/bbrala)*

**Technical Director**

**SWIS**

The Netherlands



# Hi there!

- Björn Brala
- CTO @ SWIS
- Core maintainer for jsonapi
- Maintainer of project update bot
- Board member Dutch Drupal Association



**bbrala**



# SWIS

- Dutch Digital Agency from Leiden
- Sustainable digital transformations
- Non-profit, government and healthcare
- Love our automated updates





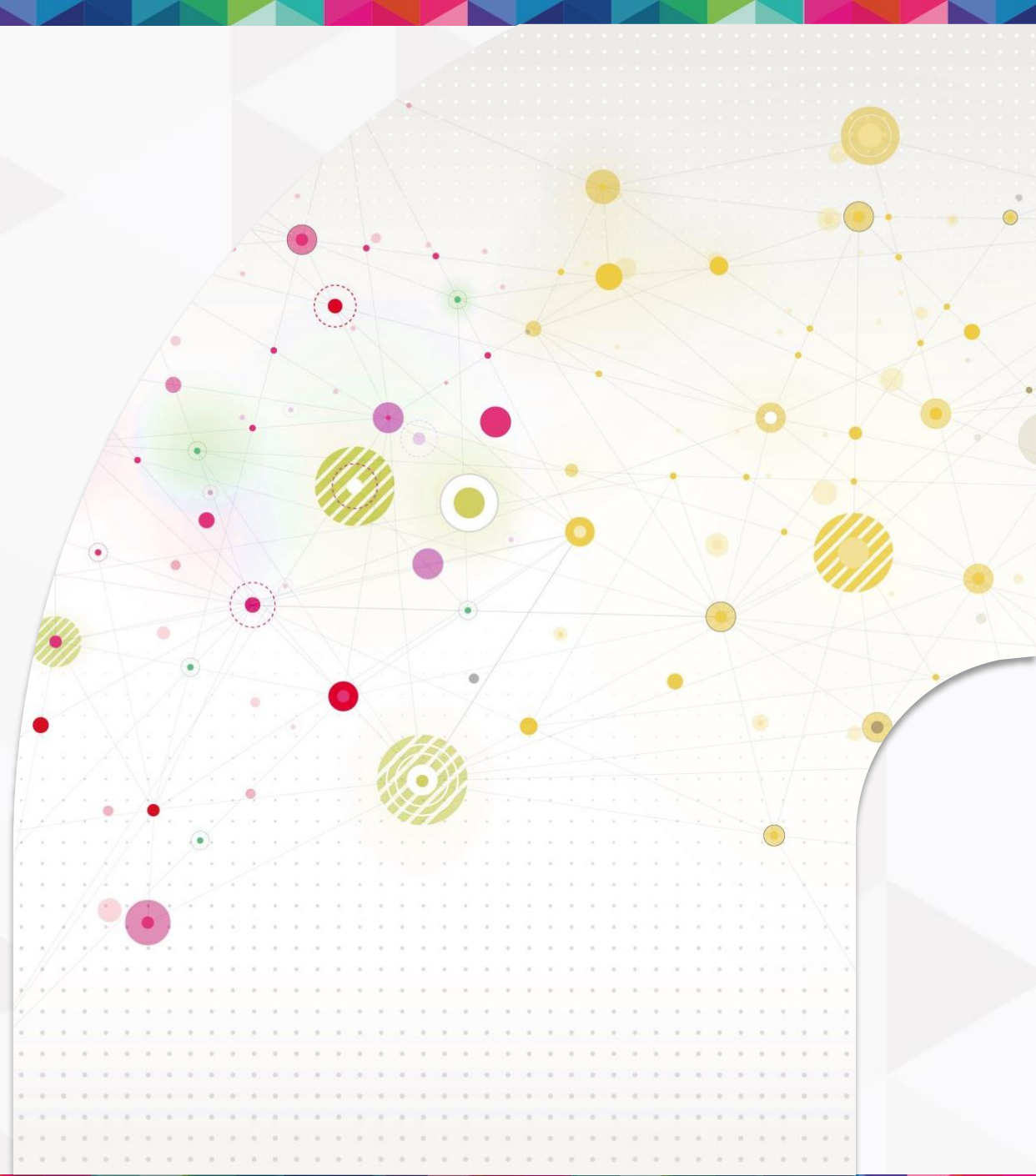
# Project update bot

Good bot?

---

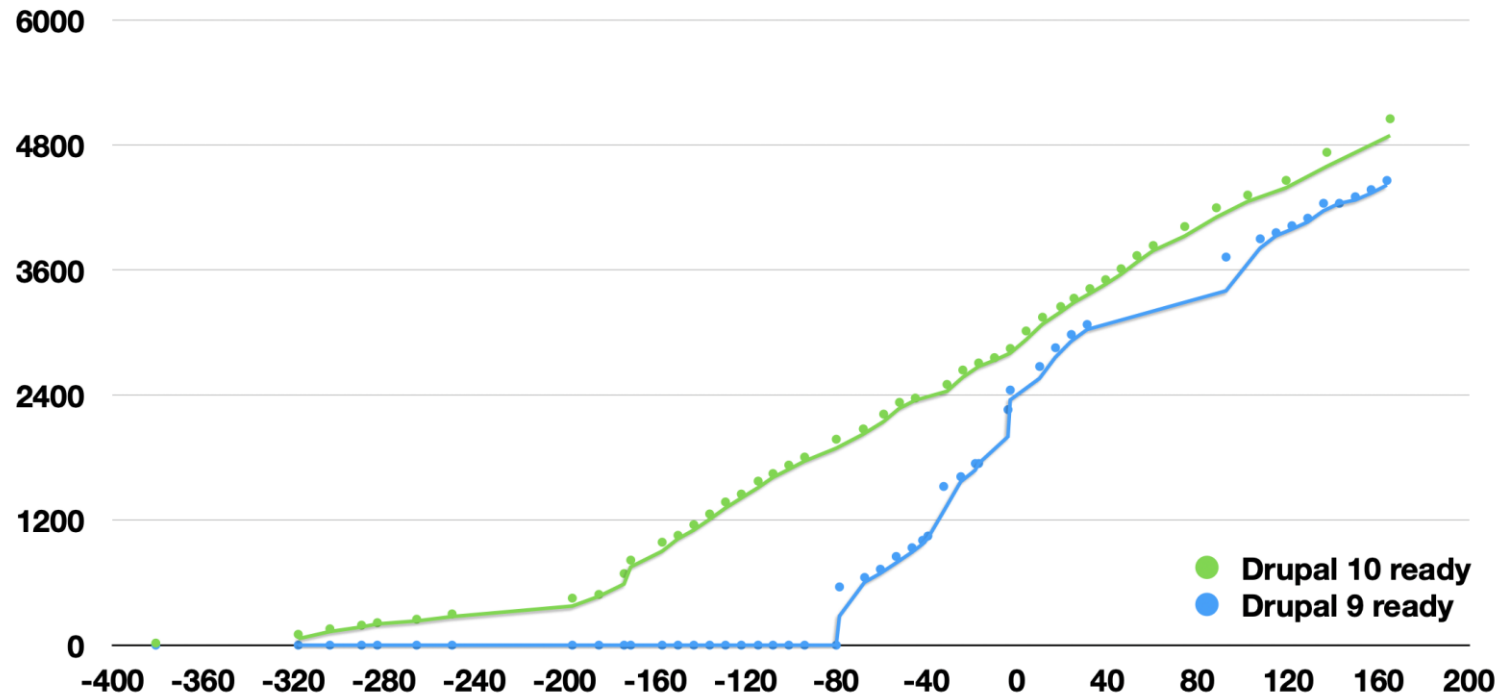
# How did we do?

- How many modules
  - **84%** of top 1000 modules are ready or have D10 patches
- How many patches/issues posted and fixed
  - **7243 issues** opened
  - **2245** issues fixed/closed (fixed)
  - **443** RTBC



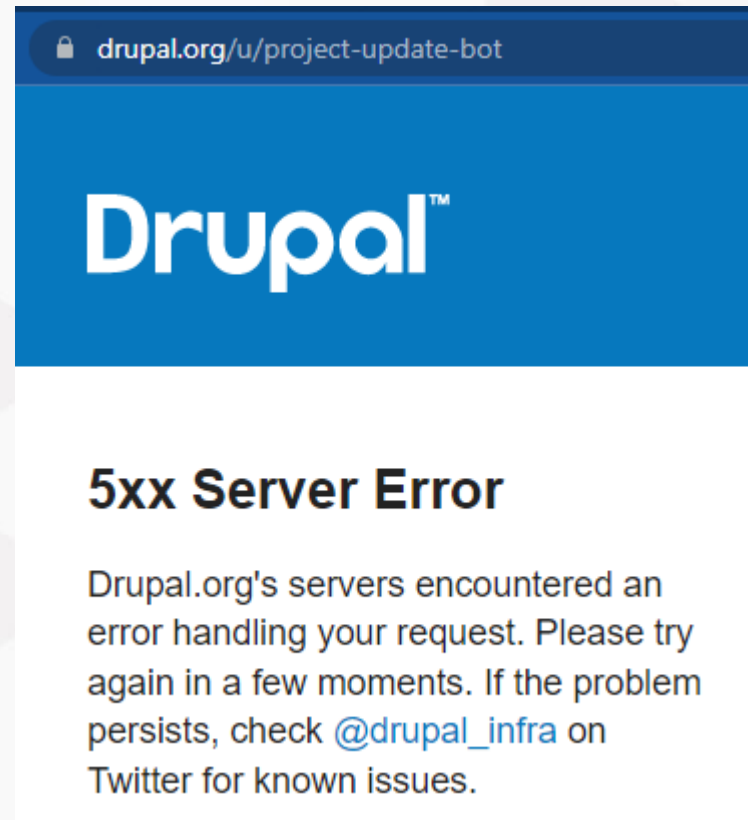
# Compared to D9?

**Drupal major version extension readiness based on days left to the stable major core release**



# What is project update bot?

Some random guy with 4365 issue credits



 [u/project-update-bot](#)

# What is project update bot?

The face of project analysis, a collection of powerful tools

## Tools

- PHPStan
- PHPStan Drupal
- Drupal-check
- Upgrade status
- Rector
- Drupal Rector

## Projects

- Project analysis
- Project update bot
- Aquia deprecation status dashboard





# PHPStan Drupal

- **PHP** static **analysis** tool
- Finds bugs in your code without writing tests.
- Finds usages of deprecated code
- <https://phpstan.org/>
- Extension for PHPStan to integrate with Drupal



# Drupal check

- Wrapper around PHPStan and phpstan-drupal to simplify configuration



# Upgrade status

- Interface to analyze readiness for next major Drupal release

Home > Administration > Reports

## Drupal 10 upgrade status

Gather data	Fix incompatibilities	Relax
<ul style="list-style-type: none"><li>Install <a href="#">Composer Deploy</a> or <a href="#">Git Deploy</a> as appropriate for accurate update recommendations</li><li><a href="#">Check available updates</a> (Last checked 2 minutes 57 seconds ago)</li><li>Select any of the projects to rescan as needed below</li></ul>	<ul style="list-style-type: none"><li><a href="#">Remove: 4 projects</a></li><li><a href="#">Update: 15 projects</a></li><li><a href="#">Collaborate with maintainers: 18 projects</a></li><li><a href="#">Fix manually: 3 projects</a></li></ul>	<ul style="list-style-type: none"><li><a href="#">Compatible with next major Drupal core version: 51 projects</a></li><li><a href="#">Environment checks passed</a></li></ul>



### ^ Drupal core and hosting environment

Upgrades to Drupal 10 are supported from Drupal 9.4.x and Drupal 9.5.x. It is suggested to update to the latest Drupal 9 version available. [Several hosting platform requirements have been raised for Drupal 10.](#)

Requirement	Status
Drupal core should be at least 9.4.x	Version 9.4.8.
PHP version should be at least 8.1.0. Before updating to PHP 8, use <code>\$ composer why-not php 8.1</code> to check if any projects need updating for compatibility. Also check custom projects manually.	Version 8.1.12
Database JSON support required	Supported.
<a href="#">Invalid permissions will trigger runtime exceptions in Drupal 10.</a> Permissions should be defined in a <code>permissions.yml</code> file or a permission callback.	None found.
Deprecated or obsolete core extensions installed. These will be removed in the next major version.	None installed.

### ^ Remove

The likely best action is to remove projects that are uninstalled. Why invest in updating them to be compatible if you are not using them?

<input type="checkbox"/>	Project	Type	Status	Local version	Local 10-ready	Local scan result	Drupal.org version	Drupal.org 10-ready	Drupal.org issues	Plan
<input type="checkbox"/>	Configuration Update Base (config_update)	Contributed module	Uninstalled	8.x-1.7	Incompatible	<a href="#">24 problems</a>	Not applicable	Unchecked	<a href="#">Issues</a>	N/A
<input type="checkbox"/>	Translation template extractor (potx)	Contributed module	Uninstalled	8.x-1.0-alpha1	Incompatible	<a href="#">36 problems</a>	Not applicable	Unchecked	<a href="#">Issues</a>	N/A

# Rector

We Turn Legacy Code into Valuable and Sustainable Code

- Tooling to refactor code automatically
  - Support new PHP versions
  - Refactor classes, methods, arguments
  - And way more...



# Rector

## Adding a new argument

```
use PHPStan\Type\ObjectType;
use Rector\Arguments\Rector\ClassMethod\ArgumentAdderRector;
use Rector\Arguments\ValueObject\ArgumentAdder;
use Rector\Config\RectorConfig;

return static function (RectorConfig $rectorConfig): void {
    $rectorConfig->ruleWithConfiguration(
        ArgumentAdderRector::class,
        [new ArgumentAdder('SomeExampleClass', 'someMethod', 0, 'someArgument', true, new ObjectType('SomeType'))]
    );
};
```



# Rector

## Adding a new argument

```
use PHPStan\ObjectType;  
use Rector\Arguments\Rector\ClassMethod\ArgumentAdderRector;  
use Rector\Arguments\ValueObject\ArgumentAdder;  
use Rector\Config\RectorConfig;  
  
return static function (RectorConfig $rectorConfig): void {  
    $rectorConfig->ruleWithConfiguration(  
        ArgumentAdderRector::class,  
        [new ArgumentAdder('SomeExampleClass', 'someMethod', 0, 'someArgument', true, new ObjectType('SomeType'))]  
    );  
};
```



```
$someObject = new SomeExampleClass;  
-$someObject->someMethod();  
+$someObject->someMethod(true);  
  
class MyCustomClass extends SomeExampleClass  
{  
- public function someMethod()  
+ public function someMethod($value = true)  
    {  
    }  
}
```



# Drupal Rector

Using the power of Rector to automate fixing deprecations



# Drupal Rector

Using the power of Rector to automate fixing deprecations

- A set of deprecations for Drupal
- Automated fixes where possible





# What is project update bot?

The face of project analysis, a collection of powerful tools

## Tools

- PHPStan
- PHPStan Drupal
- Drupal-check
- Upgrade status
- Rector
- Drupal Rector

## Projects

- Project analysis
- Project update bot
- Aquia deprecation status dashboard



A superhero character with green hair, wearing a red and white suit, is flying over a globe. He has a colorful hexagonal logo on his chest. The background is a light gray grid pattern.

# By their powers combined!

I am project update bot!

# Project analysis

Automating data collection and patch generation

- Why automation is important
- What does it do?
- The process



# Why automation is important

Automation is driving the decline of banal and repetitive tasks.

- Drupal needs modules
- A lot of modules are very simple to upgrade
- Upgrade with minimal effort



# What does it do?

Project analysis in a nutshell

- Scripts to install, check and patch modules
- Analyses all drupal.org projects
- Create patches from updated code
- Store the analysis results for other tools
- Runs on GitLab runners!



# What does it do?

Project analysis in a nutshell

- Runs on **GitLab runners**
- 3-hour runtime
- Processes about **10.000 projects**
- Split to 50 separate jobs as parallel as possible
- Broke ***git.drupal.org*** a few times. Sorry :x



# Let's go through the process

How does the analysis work?

Prepare

Analyse

Publish



# Let's go through the process

## Analysing a single project

1. Install and enable the project
2. Run **drush upgrade\_status:checkstyle [module]** and store XML output
3. Should we **run rector** to fix the module?

```
<?xml version="1.0"?>
<checkstyle>
  <file name="modules/contrib/quiz_item_analysis/src/Controller/QuizItemAnalysisController.php">
    <error line="435" message="Call to deprecated method queryTemporary() of class Drupal\Core\Database\Connection. Deprecated in drupal:9.3.0 and is removed from drupal:10.0.0. There is no replacement." severity="warning"/>
  </file>
  <file name="modules/contrib/quiz_item_analysis/quiz_item_analysis.info.yml">
    <error line="0" message="Value of core_version_requirement: ^8 || ^9 is not compatible with the next major version of Drupal core. See https://drupal.org/node/3070687." severity="error"/>
  </file>
</checkstyle>
```





# Let's go through the process

Analysing a single project

1. Install and enable the project
2. Run **drush upgrade\_status:checkstyle [module]** and store XML output
3. Should we **run rector** to fix the module?
4. If so; **commit** the project
5. Run **rector** to fix deprecations and store the output



# Let's go through the process

## Analysing a single project

```
diff --git a/jsonapi_image_styles.2.0.x-dev.upgrade_status.pre_rector.xml b/jsonapi_image_styles.2.0.x-dev.upgrade_status.post_rector.xml
index 50886668c..76f219ec8 100644
--- a/jsonapi_image_styles.2.0.x-dev.upgrade_status.pre_rector.xml
+++ b/jsonapi_image_styles.2.0.x-dev.upgrade_status.post_rector.xml
@@ -1,13 +1,10 @@
<?xml version="1.0"?>
<checkstyle>
- <file name="modules/contrib/jsonapi_image_styles/src/EventSubscriber/ConfigSubscriber.php">
- <error line="32" message="Parameter $event of method Drupal\jsonapi_image_styles\EventSubscriber\ConfigSubscriber::onResponse() has typehint with
deprecated class Symfony\Component\HttpKernel\Event\FILTER_RESPONSE_EVENT: since Symfony 4.3, use ResponseEvent instead" severity="error"/>
- </file>
| <file name="modules/contrib/jsonapi_image_styles/jsonapi_image_styles.info.yml">
| <error line="0" message="Value of core_version_requirement: ^8.8 || ^9 is not compatible with the next major version of Drupal core. See
| https://drupal.org/node/3070687." severity="error"/>
| </file>
| <file name="modules/contrib/jsonapi_image_styles/composer.json">
| <error line="0" message="The drupal/core requirement is not compatible with the next major version of Drupal. Either remove it or update it to be
| compatible. See https://drupal.org/node/2514612#s-drupal-9-compatibility." severity="error"/>
| </file>
</checkstyle>
```

8. If so; create the **patch!**





# Let's go through the process

Publishing the results

1. All results are **stored as artifacts** in Gitlab
2. A job **combines** all **artifacts** to a single directory
3. Artifacts are **committed** to an orphan 'results' branch

[https://git.drupalcode.org/project/project\\_analysis/-/tree/results](https://git.drupalcode.org/project/project_analysis/-/tree/results)

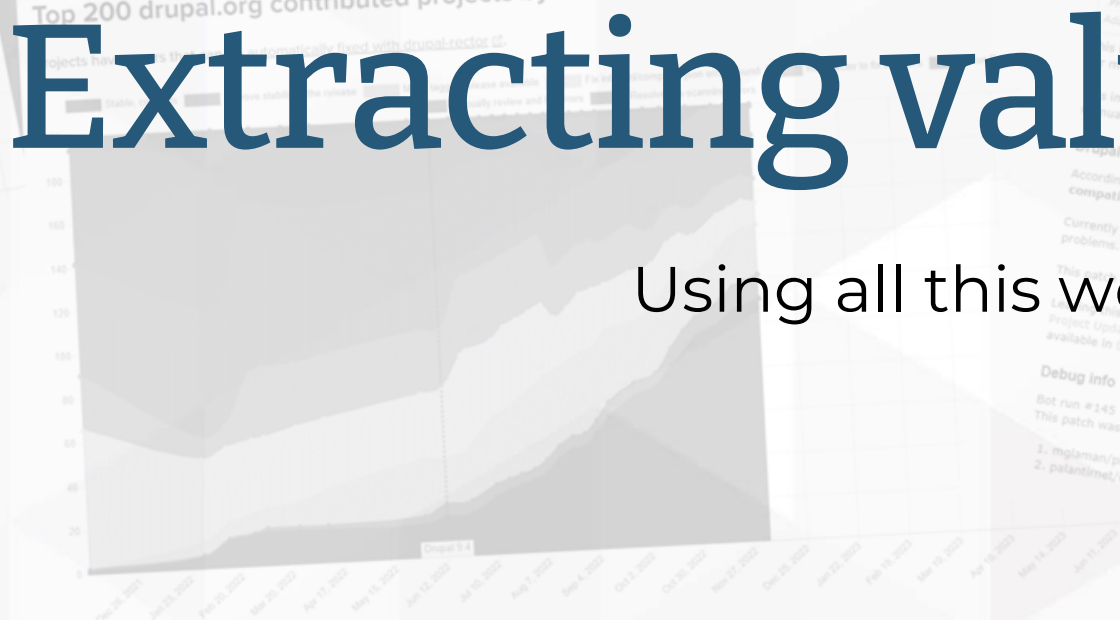


## Drupal 10 deprecation charts

Percentage of contributed projects by next step in usage groups



Top 200 drupal.org contributed projects by next step over time



# Extracting value from data

Using all this work for good

Project	Title	Status	Priority	Category	Version	Replies	Followers	Last updated	Status changed to	Assigned	Created
Page restatag	Automated Drupal 10 compatibility fixes new	Needs review	Normal	Task	1.0-1	6	3 new	3	9 min 15 sec	5 months 3 weeks	5 months 3 weeks
URL Embed	Automated Drupal 10 compatibility fixes new	Fixed	Normal	Task	2.x-dev	24	7 new	8	18 min 10 sec	18 min 14 sec	5 months 3 weeks
OpenAPI UI	Automated Drupal 10 compatibility fixes new	Needs review	Normal	Task	8.x-2.x-dev	20	7 new	9	22 min 7 sec	1 hour 47 min	5 months 3 weeks
Image Optimiz	Automated Drupal 10 compatibility fixes new	Reviewed & tested by the community	Normal	Task	8.x-1.x-dev	9	2 new	6	10 hours 20 min	3 months 1 week	5 months 3 weeks
Comment Revision Reference	Automated Drupal 10 compatibility fixes new	Fixed	Normal	Task	4.x-dev	9	2 new	6	10 hours 47 min	10 hours 47 min	5 months 3 weeks
Comment (Easy) Email	Automated Drupal 10 compatibility fixes new	Fixed	Normal	Task	8.x-1.x-dev	5	2 new	3	10 hours 56 min	10 hours 56 min	5 months 3 weeks

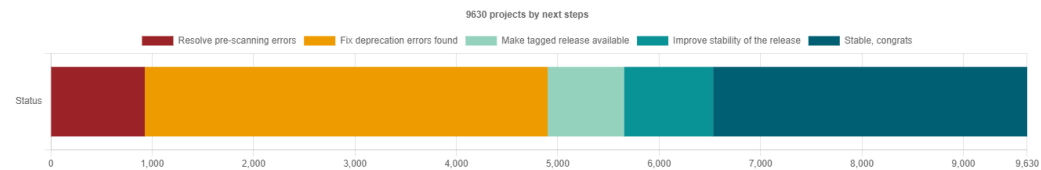
```
Project Update Bot csw commented 22 August 2022 at 23:26  
File  
interdiff-test-bot.6664429.txt  
url_embed.1.x-dev.rector.patch  
8.x-1.x-dev PHP 7.3 & MySQL 5.5, DB 4.9.888  
PHP 7.4 & MySQL 5.7, DB 4.9.888  
Add test / test  
Drupal 10 Compatibility  
According to the Upgrade Status module, even with this patch, this module is not yet compatible with Drupal 10.  
Currently Drupal Rector, version 0.13.1, cannot fix all of the incompatibilities.  
Project Update Bot to post additional Drupal 10 compatibility fixes as they become available in Drupal Rector.  
Debug info  
Bot run #145  
This patch was created using these packages:  
1. mgjz/man/philipstan-drupal: 1.1.25  
2. palantirnet/drupal-rector: 0.13.1
```

# Drupal 10 deprecation status

## Drupal 10 deprecation status summary

Summary Projects Errors Charts

The [Drupal Association](#) is running a report weekly on all Drupal 9 compatible contributed projects to check for deprecated API uses for compatibility with Drupal 10. This summary and the detail pages are using the raw data from that report to help act on the results. The current displayed dataset is #11078 from 2023-04-30T17:36. [All the \(very, very\) raw source data is available](#). Out of the **9630 projects analyzed**, there are three big categories of results: pre-scanning problems that prevent us from looking for deprecated API uses; scanning results and project release status once the code is marked compatible.



### Fix deprecation errors found: 3973 projects

Projects that have deprecation checking results with errors to fix. These could still include parse errors found in the process of deprecation checking, but most of the errors found are real deprecated API uses. We further segment these errors into Drupal and not Drupal deprecated API uses. Most of the Drupal ones are even covered by [drupal-rector automation](#) (thanks to [Palantir.net](#) funding) to fix them automatically as much as possible. There are also a number of third party API deprecations, some of which we segment out for easier tracking. Use [Upgrade Status](#) locally to verify your progress fixing these problems.

### Make tagged release available: 752 projects

Now that a development branch of this project is compatible with Drupal 10, the next step is to tag an alpha/beta/RC or stable version of the project, depending on maintainer confidence in the stability of the codebase. This allows people to use a specific known compatible version of the project.

### Improve stability of the release: 879 projects

The project has a tagged release for Drupal 10 which is great. Depending on maintainer confidence about stability of the codebase, the next step is to make a stable (not alpha/beta/RC) release available for this project.

### Stable, congrats: 3098 projects

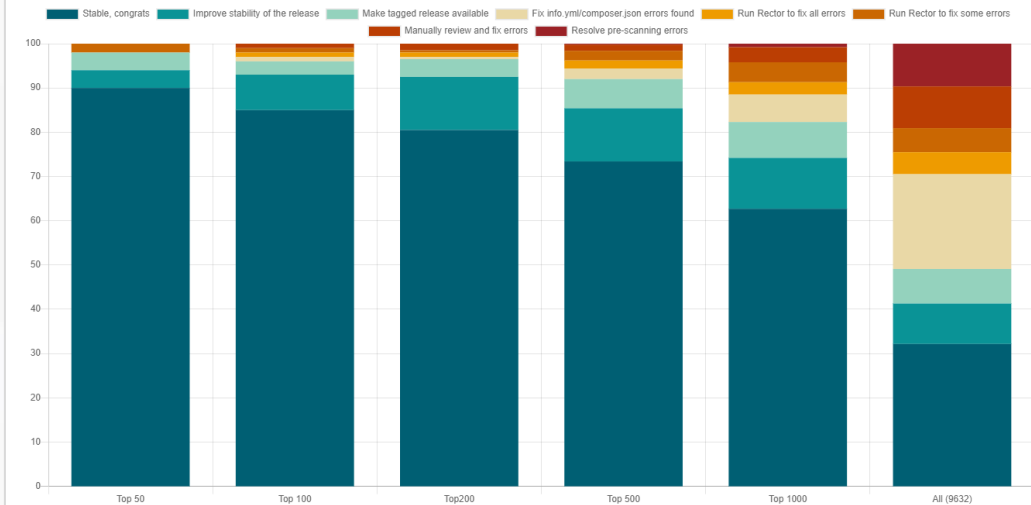
The project is not only declared compatible with Drupal 10 but even has a stable release with that compatibility. Congrats and thanks to the maintainers and contributors!

## Drupal 10 deprecation charts

Summary Projects Errors Charts

### Percentage of contributed projects by next step in usage groups

Larger groups include results for smaller usage groups.



### Top 200 drupal.org contributed projects by next step over time

Projects have errors that can be [automatically fixed with drupal-rector](#).



# Drupal 10 deprecation status

## Drupal 10 project deprecation status

Summary Projects Errors Charts

Filter projects

Names:  Next step:  Maintainer:  Type:  Top X by usage:

21 projects by next steps

- Stable, congrats (66.67%)
- Improve stability of the release (9.52%)
- Make tagged release available (0%)
- Fix info.yml/composer.json errors found (14.29%)
- Run Rector to fix all errors (0%)
- Run Rector to fix some errors (0%)
- Manually review and fix errors (0%)
- Resolve pre-scanning errors (9.52%)

3 occurrences of errors found

- Info.yml or composer.json (100%)
- Drupal API, rector covered (0%)
- Drupal API, not rector covered (0%)
- Symfony API (0%)
- Twig API (0%)
- PHPUnit API (0%)
- Guzzle API (0%)
- Frontend API (0%)
- Other problem (0%)
- Parse error (0%)

Name and release	Status	Next step	Usage	Top X by usage	Total errors	Drupal.org issues
jsonapi_extras 3.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	13782	500	0	Compatibility issues <a href="#">↗</a>
hal 1.0.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	10595	500	0	Compatibility issues <a href="#">↗</a>
paragraphs_edit 2.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	7648	500	0	Compatibility issues <a href="#">↗</a>
file_replace 1.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	5711	500	0	Compatibility issues <a href="#">↗</a>
rdf 2.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	5260	500	0	Compatibility issues <a href="#">↗</a>
recaptcha_element 1.0.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	672	10000	0	Compatibility issues <a href="#">↗</a>
breadcrumb_menu 1.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	197	10000	0	Compatibility issues <a href="#">↗</a>
admin_toolbar_tasks 1.0.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	126	10000	0	Compatibility issues <a href="#">↗</a>
twig_renderable 1.x-dev	✓ Release as Drupal 10-ready	Stable, congrats	126	10000	0	Compatibility issues <a href="#">↗</a>

## superfish 1.x-dev Drupal 10 deprecation details

Summary Projects Errors Charts

Name and release	Project type	Usage count	Top X project by usage	Maintainers
superfish 1.x-dev <a href="#">↗</a>	Module	34489	100	mehrpadin

Status	Next step	Instructions	Drupal.org issues
🔴 Fix deprecation errors found	Manually review and fix errors	Based on our detection methods, none of the errors found are covered by automated fixes. However the errors found should individually have documentation links to help understand the changes. Review and fix the issues manually. In case an issue fix is possible to automate, please submit an issue at <a href="#">drupal-rector</a> .	Drupal 10 compatibility issues <a href="#">↗</a>

Filter errors

Error:  Category:

Occurrence in project	All occurrences	Affected projects	Category	Error
1	3289	2816	⚠ Info.yml or composer.json	Value of core_version_requirement: ^8    ^9 is not compatible with the next major version of Drupal core. See <a href="https://drupal.org/node/3070687">https://drupal.org/node/3070687</a> .
1	1	1	⚠ Twig API	The spaceless tag in "modules/contrib/superfish/templates/superfish-menu-items.html.twig" at line 23 is deprecated since Twig 2.7, use the "spaceless" filter with the "apply" tag instead. See <a href="https://drupal.org/node/3071078">https://drupal.org/node/3071078</a> .
1	1	1	⚠ Frontend API	The 'superfish' library is depending on a deprecated library. The core/jquery.once asset library is deprecated in Drupal 9.3.0 and will be removed in Drupal 10.0.0. Use the core/once library instead. See <a href="https://www.drupal.org/node/3158256">https://www.drupal.org/node/3158256</a> .

# Project update bot

- Super **secret private repository** (sorry)
- Issue templates from **project/project\_analysis**
- **Analyses** results and posts new patches

APITools » Issues

## Automated Drupal 10 compatibility fixes

[View](#) [Edit](#) [View history](#) [CLONE ISSUE](#)

### Problem/Motivation

Hello project maintainers,

This is an automated issue to help make this module compatible with Drupal 10.

To read more about this effort by the Drupal Association, please read: [The project update bot is being refreshed to support Drupal 10 readiness of contributed projects](#)

Patches will periodically be added to this issue that remove Drupal 10 deprecated API uses. To stop further patches from being posted, change the status to anything **other than** Active, Needs review, Needs work or Reviewed and tested by the community. Alternatively, you can remove the "ProjectUpdateBotD10" tag from the issue to stop the bot from posting updates.

The patches will be posted by the [Project Update Bot](#) official user account. This account will not receive any issue credit contributions for itself or any company.

### Proposed resolution

You have a few options for how to use this issue:

#### 1. **Accept automated patches until this issue is closed**

If this issue is left open (status of Active, Needs review, Needs work or Reviewed and tested by the community) and the "ProjectUpdateBotD10" tag is left on this issue, new patches will be posted periodically if new deprecation fixes are needed.

As the Drupal Rector project improves and is able to fix more deprecated API uses, the patches posted here will cover more of the deprecated API uses in the module.

Patches and/or merge requests posted by others are ignored by the bot, and general human interactions in the issue do not stop the bot from posting updates, so feel free to use this issue to refine bot patches. The bot will still post new patches then if there is a change in the new generated patch compared to the patch that the bot posted last. Those changes are then up to humans to integrate.

#### 2. **Leave open but stop new automated patches.**





# Drupal 11

Creating a maintainable pace

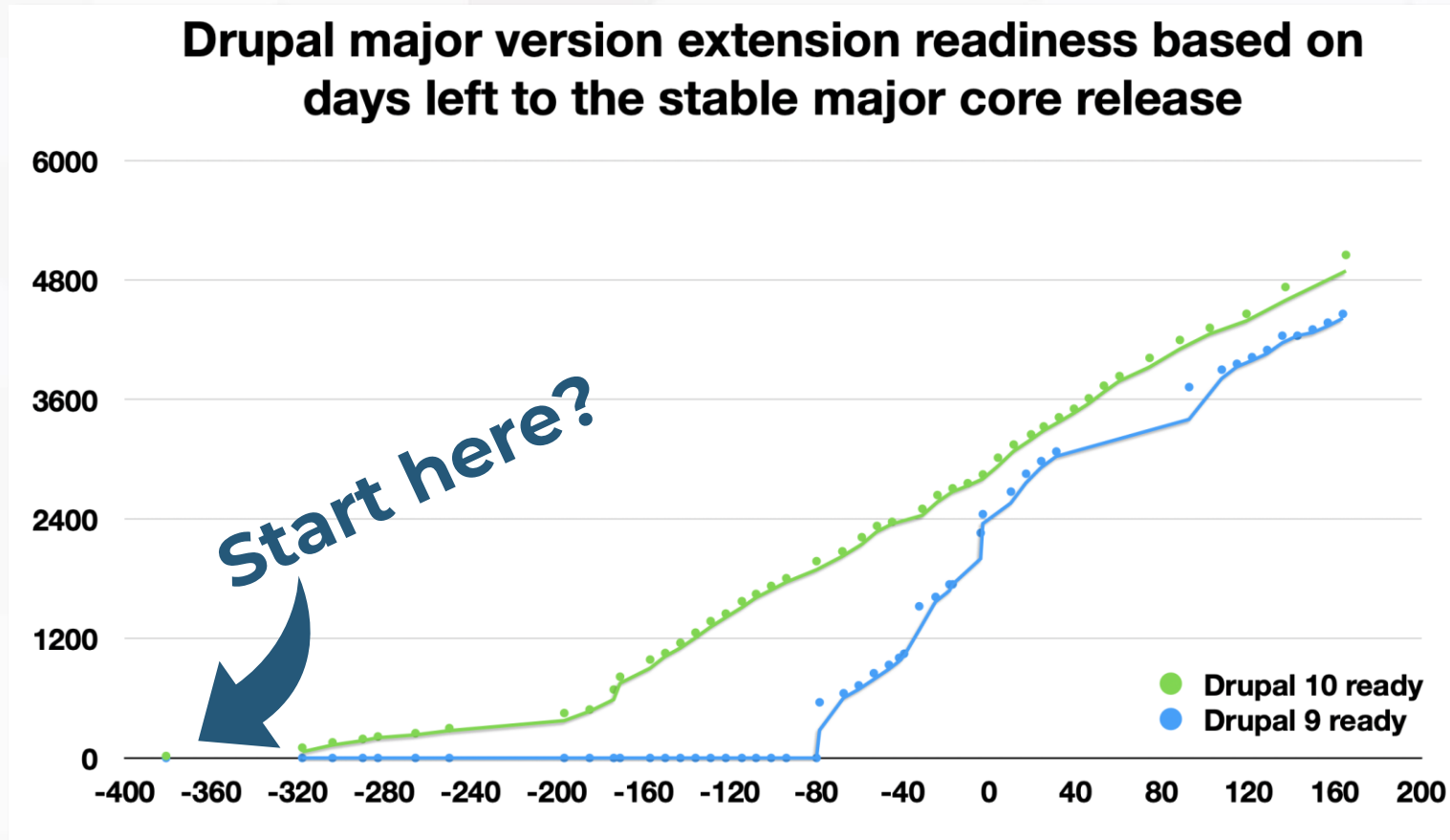
---

# Drupal 11

Help modules fix deprecations throughout Drupal 10

- It has been **a rough ride** for contrib and tooling maintainers alike
- Break **backwards compatibility** in patches is a bad idea™
- Successfully **decoupled from D.A.** infra team
- We should **start earlier** helping maintainers

# Drupal 11?



# Road to Drupal 11

**Fully utilize  
Gitlab**

**Track  
deprecations**

**Backwards  
compatible  
fixes**

# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates
- Use **merge requests** instead of patches
- Use **Gitlab issues** when available
- **Move** the **project update bot** to Gitlab?

# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates

```
29 include:
30 | #####
31 | # DrupalCI includes:
32 | # As long as you include this, any future includes added by the Drupal Association will
   | automatically.
33 | # View these include files at https://git.drupalcode.org/project/gitlab\_templates/
34 | #####
35 | - project: $_GITLAB_TEMPLATES_REPO
36 |   ref: $_GITLAB_TEMPLATES_REF
37 |   file:
38 |     - '/includes/include.drupalci.main.yml'
39 |     - '/includes/include.drupalci.variables.yml'
40 |     - '/includes/include.drupalci.workflows.yml'
41 |
```

# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates

```
29 include:
30   #####
31   # DrupalCI includes:
32   # As long as you include this, any future includes added by the Drupal Association will
   automatically.
33   # View these include files at https://git.drupalcode.org/project/gitlab\_templates/
34   #####
35   - project: $_GITLAB_TEMPLATES_REPO
36     ref: $_GITLAB_TEMPLATES_REF
37     file:
38       - '/includes/include.drupalci.main.yml'
39       - '/includes/include.drupalci.variables.yml'
40       - '/includes/include.drupalci.workflows.yml'
41
42 variables:
43   PROJECT_UPDATE_BOT_MONTHLY: '1'
```

# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates
- Use **merge requests** instead of patches
- Use **Gitlab issues** when available
- **Move** the **project update bot** to Gitlab?



# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates
- Use **merge requests** instead of patches

```
git push -o merge_request.create
```

## Push options for merge requests [↗](#)

You can use Git push options to perform certain actions for merge requests at the same time as pushing changes:

Push option	Description	Introduced in version
<code>merge_request.create</code>	Create a new merge request for the pushed branch.	11.10

# Utilizing Gitlab

Fully utilize  
Gitlab

- Utilize **Gitlab templates** to enable opt-in to frequent updates
- Use **merge requests** instead of patches
- Use **Gitlab issues** when available
- **Move** the **project update bot** to Gitlab?

# Road to Drupal 11

**Fully utilize  
Gitlab**

**Track  
deprecations**

**Backwards  
compatible  
fixes**

# The automated fixes pipeline

From the viewpoint of a human

Track  
deprecations

- Track **new deprecations**
- Create relevant **issues** in tooling (up to 5 projects!)
- **Update tooling** to support the deprecation
- **Release** new versions and **run project analysis**
- Post new patches/merge requests with **project update bot**
- ...
- **Profit**



[mglaman/drupal-change-record-triage](#)

# Drupal change record triage

Track deprecations

- **Create issues** for new deprecations
- Manually **label the tools** that are affected
- **Track progress** of those changes

🕒 node\_get\_recent() is deprecated  
10.1.x drupal-rector phpstan-deprecations  
#558 opened on May 1 by github-actions bot

🕒 watchdog\_exception() deprecated  
10.1.x drupal-rector phpstan-deprecations  
#557 opened on Apr 28 by github-actions bot

🕒 Deprecate node\_get\_recent()  
10.1.x drupal-rector phpstan-deprecations  
#556 opened on Apr 26 by github-actions bot

🕒 New transaction isolation level default for new sites for MySQL, MariaDB or equivalent databases  
10.1.x  
#555 opened on Apr 26 by github-actions bot

🕒 Connection::tablePrefix() is deprecated, use Connection::getPrefix() instead  
10.1.x drupal-rector phpstan  
#550 opened on Apr 21 by github-actions bot

# Road to Drupal 11

**Fully utilize  
Gitlab**

**Track  
deprecations**

**Backwards  
compatible  
fixes**



# Backwards compatible fixes

Patches that work during the Drupal 10 lifecycle

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# What does BC bring?

Backwards  
compatible  
fixes

- Module **bad\_bot**:
  - **1.4.x** supports Drupal **^10.2**
  - **1.5.x** supports Drupal **^11.0**
- Module **good\_bot**
  - **1.x** supports Drupal **^10.2 || ^11.0**



# What does BC bring?

Backwards  
compatible  
fixes

```
./composer.json has been updated
```

```
Running composer update drupal/core-recommended drupal/core-composer-scaffold  
drupal/core-project-message composer/installers --with-all-dependencies
```

```
Gathering patches for root package.
```

```
Loading composer repositories with package information
```

```
Updating dependencies
```

```
Your requirements could not be resolved to an installable set of packages.
```

## Problem 1

```
- drupal/core-recommended 10.0.x-dev requires drupal/core 10.0.x-dev -> found  
drupal/core[10.0.x-dev] but these were not loaded, likely because it conflicts with  
another require.
```

```
- drupal/core-recommended 10.1.x-dev requires drupal/core 10.1.x-dev -> found  
drupal/core[10.1.x-dev] but these were not loaded, likely because it conflicts with  
another require.
```

```
- drupal/core-recommended 10.0.0-alpha1 requires drupal/core 10.0.0-alpha1 -> found  
drupal/core[10.0.0-alpha1] but these were not loaded, likely because it conflicts with  
another require.
```

# Backwards compatible fixes

Patches that work during the Drupal 10 lifecycle

Backwards  
compatible  
fixes

- Patches should be backwards compatible
- Rector can do this, but we need to develop this for Drupal
- Generate BC-compatible and breaking patches


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# Helping out

-  Slack
  - #d10readiness / #d11readiness
  - #rector
  - #phpstan
- **Get all your modules released!**
- **Drupal 10 project adoption (#3342443)**



**bbrala**

